

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD2098	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Reclamation District No. 2098 Cache and Haas Slough	M *	10.96						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.68		0.68	6.20%				
Slope Stability	0.29		0.29	2.65%				
Erosion / Bank Caving	0.04		0.04	0.37%				
Repair Gates	0.02	0.01	0.06	0.55%				
<i>Supplemental</i>								
USACE Erosion Survey	0.02		0.02	0.18%				
<i>LMA Totals:</i>	1.05	0.01	1.09	9.95% *	0.00	0.00	0.00	0.00
Unit No. 01 Yolo Bypass RB	Overall Unit Rating	Total Unit Miles						
RD2098	A	3.58						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Erosion / Bank Caving	0.04		0.04	1.12%				
<i>Unit Totals:</i>	0.04	0.00	0.04	1.12%	0.00	0.00	0.00	0.00
Unit No. 01A Cross Levee RB	Overall Unit Rating	Total Unit Miles						
RD2098	A	0.55						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				
Unit No. 02 Cache Slough LB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD2098	M *	2.01						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Repair Gates	0.01	0.01	0.05	2.49%				
<i>Unit Totals:</i>	0.01	0.01	0.05	2.49% *	0.00	0.00	0.00	0.00
Unit No. 03 Haas Slough RB	Overall Unit Rating	Total Unit Miles						
RD2098	M	1.89						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Slope Stability	0.29		0.29	15.34%				
Repair Gates	0.01		0.01	0.53%				
<i>Supplemental</i>								
USACE Erosion Survey	0.01		0.01	0.53%				
<i>Unit Totals:</i>	0.31	0.00	0.31	16.40%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 04 Back Levee LB		Overall Unit Rating	Total Unit Miles						
RD2098		U	2.93						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.68		0.68	23.21%					
<i>Supplemental</i>									
USACE Erosion Survey	0.01		0.01	0.34%					
<i>Unit Totals:</i>	0.69	0.00	0.69	23.55%	0.00	0.00	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2013 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 01 Yolo Bypass			Right	3.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/23/2013 - 04/23/2013		10/09/2013 - 10/09/2013	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mike Hardesty RD 2098		Mike Hardesty RD 2098	

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Yolo Bypass					Right	3.58	10/09/2013 10/09/2013	Herman Phillips	

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma		°	°	13
								°	°	
								DWR ID: DWR_RD2098_01_s_2012_13		
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		°	°	14
								°	°	
								DWR ID: DWR_RD2098_01_s_2012_14		
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma		°	°	15
								°	°	
								DWR ID: DWR_RD2098_01_s_2012_15		
4	0.00	0.00	Earthen Levee	Vegetation	LS	A Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation has been removed by District both landside and waterside.	38.329118 ° -121.694060 °	38.329118 ° -121.694060 °	7 Y
								DWR ID: DWR_RD2098_01_s_2012_7		
5	0.57	0.59	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.320853 ° -121.694002 °	38.320564 ° -121.694002 °	16
								DWR ID: DWR_RD2098_01_s_2012_16		
6	0.61	0.63	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.320979 ° -121.694029 °	38.319984 ° -121.694001 °	17
								DWR ID: DWR_RD2098_01_s_2012_17		

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.58	10/09/2013 10/09/2013	Herman Phillips

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 2098 Unit 1 levee mile 0.00 looking downstream from downstream limits of RD 2068 Unit 1. Photo taken 10-09-2013.	
phillips_f_20131015_632.JPG	



* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	N : Not Inspected/Rated	En : Enforcement
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	
	U : Unacceptable	

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 01A Cross Levee			Right	0.55
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/23/2013 - 04/23/2013		10/09/2013 - 10/09/2013	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee	Right	0.55	10/09/2013 10/09/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.53	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: All vegetation has been removed from the landside slope. Photo taken 10-09-2013.	38.277534 ° -121.696248 °	38.275720 ° -121.706730 °	16 Y
DWR ID: DWR_RD2098_01A_f_2013_16										
2	0.00	0.53	Earthen Levee	Vegetation	WS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Vegetation completely removed from waterside slope. Photo taken 10-09-2013.	38.277534 ° -121.696248 °	38.275720 ° -121.706730 °	17 Y
DWR ID: DWR_RD2098_01A_f_2013_17										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee	Right	0.55	10/09/2013 10/09/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.53
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 2098 Unit 1A Looking downstream from landside slope. Photo taken 10-09-2013.

phillips_f_20131015_633.JPG



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.53
Location	Water Side
Category	Earthen Levee
Item	Vegetation

RD 2068 Unit 1A looking downstream from waterside slope. Photo taken 10-09-2013.

phillips_f_20131015_634.JPG



*** Location**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 02 Cache Slough			Left	2.01
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	04/23/2013 - 04/23/2013		10/09/2013 - 10/09/2013	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	2.01	10/09/2013 10/09/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	5.29	5.29	Earthen Levee	Vegetation	LS	A Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.275706 ° -121.705698 °	38.275706 ° -121.705698 °	1 Y
DWR ID: DWR_RD2098_02_s_2013_1										
2	5.31	5.49	Earthen Levee	Vegetation	LS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.275923 ° -121.705940 °	38.278053 ° -121.707833 °	2
DWR ID: DWR_RD2098_02_s_2013_2										
3	6.71	6.71	Earthen Levee	Repair Gates	CR	U Ma	Inspector Comments: This gate is damaged and require replacement.	38.289452 ° -121.716814 °	38.289452 ° -121.716814 °	4
DWR ID: DWR_RD2098_02_f_2013_4										
4	7.13	7.13	Earthen Levee	Repair Gates	CR	M Ma		38.292962 ° -121.723312 °	38.292962 ° -121.723312 °	5
DWR ID: DWR_RD2098_02_f_2013_5										

*** Location**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	2.01	10/09/2013 10/09/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	5.29
End Levee Mile	5.29
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 2098 Unit 2 looking downstream from levee 5.29 waterside. Photo taken 10-09-2013.

phillips_f_20131015_635.JPG



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 03 Haas Slough			Right	1.89
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	04/23/2013 - 04/23/2013		10/09/2013 - 10/09/2013	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough				Right	1.89	10/09/2013 10/09/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	7.30	9.19	Earthen Levee	Vegetation	WS	A Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.294198 ° -121.725085 °	38.315638 ° -121.739715 °	3 Y
DWR ID: DWR_RD2098_03_s_2012_3										
2	7.33	7.33	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011 - Large vertical erosion pockets and bank slumping. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: HAS_7-9_L]	38.299606 ° -121.728621 °	38.294858 ° -121.725433 °	7 Y
DWR ID:										
3	7.36	7.54	Earthen Levee	Slope Stability	LS	M Ma	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: This erosion is caused by the resident goats in the area. They are corralled in this location with full access to the levee .	38.295460 ° -121.725750 °	38.296799 ° -121.727510 °	6 Y
DWR ID: DWR_RD2098_03_s_2013_6										
4	7.50	7.61	Earthen Levee	Slope Stability	WS	M Ma	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: There is erosion on waterside covered by arundo. This is not a new site. Monitor but it appears to be stable at this time. 4-23-2013.	38.295930 ° -121.727043 °	38.298142 ° -121.739715 °	4 Y
DWR ID: DWR_RD2098_03_s_2013_4										
5	8.30	8.30	Earthen Levee	Repair Gates	CR	M Ma		38.306200 ° -121.730699 °	38.306200 ° -121.730699 °	5 Y
DWR ID: DWR_RD2098_03_f_2013_5										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.89	10/09/2013 10/09/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	7.30
End Levee Mile	9.19
Location	Water Side
Category	Earthen Levee
Item	Vegetation

RD 2098 Unit 3 looking downstream from levee mile 7.30 waterside. Photo taken 10-09-2013.

phillips_f_20131015_636.JPG



Levee Mile Report Line	4
Start Levee Mile	7.50
End Levee Mile	7.61
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

RD 2098 Unit 3 landside slope erosion levee mile 7.50-7.61. Photo taken 4-23-2013.

phillips_f_20130925_374.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 04 Back Levee			Left	2.93
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/23/2013 - 04/23/2013		10/09/2013 - 10/09/2013	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

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Levee Inspections**

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Reclamation District No. 2098 Cache and Haas Slough

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 04 Back Levee						Left	2.93	10/09/2013 10/09/2013	Herman Phillips	

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	9.15	10.89	Earthen Levee	Vegetation	WS	A	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.316093 ° -121.740144 °	38.340449 ° -121.740796 °	1 Y
								DWR ID: DWR_RD2098_04_s_2013_1		
2	9.44	9.44	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2011 - Several scallops of erosion. Erosion primarily due to the weight of cattle on the slope. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: HAS_9-7_L]	38.324587 ° -121.740254 °	38.320240 ° -121.740183 °	2
								DWR ID:		
3	9.79	9.81	Earthen Levee	Vegetation	WS	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.324775 ° -121.740116 °	38.325065 ° -121.740105 °	46
								DWR ID: DWR_RD2098_04_f_2013_46		
4	9.89	10.55	Earthen Levee	Vegetation	WS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	38.325891 ° -121.740640 °	38.335461 ° -121.740602 °	58
								DWR ID: DWR_RD2098_04_f_2013_58		

*** Location**

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WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
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N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.93	10/09/2013 10/09/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	9.15
End Levee Mile	10.89
Location	Water Side
Category	Earthen Levee
Item	Vegetation

RD 2098 Unit 4 looking downstream at landside slope from levee mile 9.15. Photo taken 10-9-2013.

phillips_f_20131017_637.JPG

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement